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Use of **spinel** ferrites as sensitive material for bolometric infrared detector devices

P Tailhades, L Presmanes, C Bonningue, ... - US Patent App. 10/ ..., 2004 - Google Patents

... The article by A. Doctor, S. Baliga, M. Rost entitled "Sputtered films **thermistor** IR detector", Proc. ...

5 854 587 describes the use of pervoskite type manganites as sensitive material for **bolometers**. ...

with a sensitive element in the form of a thin layer of a **spinel ferrite** structure material ...

[All 6 versions](#)

[CITATION] Thick-film **thermistors** and RTDs

H Arima - Thick Film Sensors, 1994

[Cited by 5](#) - [Related articles](#)

... for Strontium lead Titanate Based Composite **Thermistor** Materials Via Chemical ...

WDGYQ Jun, GZL Longtu - PIEZOELECTRICS & ..., 1998 - en.cnki.com.cn

... 1, Yang Yasheng (Chongqing Optoelectronics Research Institute, Chongqing 400060); **Bolometer**

Infrared Focal Plane Arrays[J]; SEMICONDUCTOR TECHNOLOGY ... Beijing 100039, China);

Hydrothermal synthesis of Co-Mn-Ni-Mg-Fe-O nano-spinel NTC **thermistor** material[J] ...

[Cached](#)

Ceramic Sensors

... , S Subramanyam, A Amin, HL Tuller - Ceramic materials ..., 2004 - books.google.com

... vanadium oxide (VOV) or amorphous silicon («-Si), form the thermal detector in **microbolometer**

arrays (see ... can be adjusted by varying the composition in the Mn-Ni-Fe **spinel** system. ... Potential

sources of instability include: Mn Figure 9 NTC **thermistor** resistivity contours at 25 C ...

[Related articles](#) - [BL Direct](#)

Infrared optical properties of MnCoNiO **spinel** films sputter deposited in an oxygen ...

R Dannenberg, S Baliga, RJ Gambino, AH ... - Journal of Applied ..., 1999 - link.aip.org

... Though the traditional approach to make **thermistor** sensors and infrared **bolometers** has been

to ... historical composition used in the fabrication of the sintered ceramic flakes for infrared

bolometers. ... LO and TO components are similar to those reported for cobaltite **spinel**s of Zn ...

Related articles

Reducing manufacturing and raw material costs for device manufacture with ...

A Vigliotti, T Yadav, C Kostecky, C ... - US Patent App. 10/ ..., 2001 - Google Patents
... Page 9. Patent Application Publication May 30, 2002 Sheet 8 of 16 US 2002/0063365
Al R2 Incident Hav VVVv i p VVW "1 = «•" r» **i i. • _ - \ I i; .', Output ID Ampliiti "r Rz
crc2 Figure Typical Thermistor Bolometer Detector Circuit Page 10. ...

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THERMAL SENSORS PREPARED FROM NANOSTRUCTURED POWDERS

A Vigliotti, T Yadav, C Kostecky, C ... - US Patent App. 09/ ..., 1998 - Google Patents
... 26, 2001 Sheet 8 of 16 US 2001/0009314 Al Incident Ray VWv t "N// RI 4= c, Th», , = C2 Th2 ; ,
\\ \ \ L. A > \ C \ V Xi v " VX' v V ' Output In Ampliitf "r R c,- c Figure Typical Thermistor Bolometer
Detector Circuit Page 10. ... 9 depicts a typical thermistor bolometer detector circuit. ...

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Nanostructured devices from ceramic nanomaterials

T Yadav, C Kostecky - US Patent App. 10/443,195, 2003 - Google Patents
... 9 depicts a typical thermistor bolometer detector circuit. ... I/K)-(dR/dT) [0064] where, R is the
resistance of the thermistor at temperature T. For thermistors a is ... prepare devices containing oxide
ceramic compositions based on one or more of the following elements: Ti, Mn, Fe, Ni, Zn ...

All 3 versions

Prototype thermal detectors for a 187Re neutrino mass experiment

A Alessandrello, C Brofferio, DV Camin, O ... - Nuclear Physics B (..., 1999 - Elsevier
... Wo2641, Mg#5557) ilmenite violarite, mackinawite orthopyroxene (En6368) micropegmatite
saussurite, spinel, olivine chlorite ... in the next implantation run we should improve the performances
of our Si bolometers and more systematic tests with Ge thermistors are planned ...

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Recent Advances in Biological Temperature Measurements'

HW TROLANDER, JH VEGHTE - Advances in Electronics and ..., 1971 - books.google.com
... of resistance on the order of 4%/Cin the region 35-40 C. Fe, Co, and ... distribution of Ni and Mn
ions on a particular lattice site of the spinel, as suggested ... further devel- opment of the mechanisms
for establishing and maintaining electrical contact with the thermistor material will be ...

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